The AP 221 files
Committee Draft version
19th June 1997

1 The files

The AP 221 document is available as 8 Adobe .pdf file which can be viewed and searched using ADOBE Reader (3.0) The contents of the files are as follows:

file no.	principal content	pages
1	– Foreword – Contents – Introduction – 1. Scope – 2. Normative references – 3. Definitions – 4.1 Units of functionality	i - xxx 1 - 45
2	– 4.2 Application objects	46 - 202
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file no.	principal content	pages
6	– F. AAM – G. ARM Express-G – H. AIM Express-G – K. Usage senario – L. Technical discussion	1003 - 1209
7	– M. Standard data	1210 - 1432
8	– Index	1433 - 1513

The AIM long form is also supplied as an ASCII text file.

Each numbered clause does not begin on a new page. Hence the very end of the previous clause may be on the page indicated as the beginning of the next.

2 What to read

Different parts of the AP 221 document are of interest for different purposes, as follows:

– Foreword – Introduction – 1. Scope – F. Application Activity Model (AAM) – K. Usage senario – L. Technical discussion	These sections explain the objectives of AP 221. You should read these sections in order to find out whether or not AP 221 addresses your problem.
– 2. Normative references – 3. Definitions – 4.1 Units of functionality	These sections explain the structure of AP 221, its terminology, and its relationship to other standards. You should read these sections in order the understand the basis of its engineering content.
– M. Standard data	This section defines a dictionary of engineering objects that can be handled by AP 221 without prior agreement between the sender and receiver in a data exchange. (Additional engineering objects can be handled by AP 221 with prior agreement.) You should read this section in order to understand the engineering scope of AP 221 in detail, and in order to be able to define a mapping between the concepts in AP 221 to those in existing systems.
– 4.2. Application objects – J. Application Reference Model (ARM) Express-G	These sections are the 'heart' of AP 221 and define its conceptual data model. You should read these sections in order to understand how AP 221 is intended to record functional data throughout the lifecycle of a process plant, and in order to be able to define a software interfaces between AP 221 and existing systems.

– 5.1. Mapping table – 5.2. Application Interpreted Model (AIM) short form – 6. Conformance classes – A. AIM long form – J. AIM Express-G	These sections are the formal definition of an AP 221 exchange file. You should read these sections in order to be able to define software that processes an AP 221 exchange file. (This software can provide an interface either between an AP 221 exchange file and a data model based upon the AP 221 ARM or directly between an AP 221 exchange file and an existing system.)
– 4.3 Application assertions	This section is a text definition of the relationships between the application objects in the AP 221 conceptual model, that is equivalent to the diagrams in the ARM. You probably don't need to read this section.

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19th June 1997